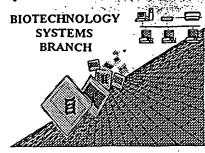
BEST AVAILABLE COPY

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/827, 937

Source: 0/PE

Date Processed by STIC: 4-23-0/

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3heip@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

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The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

http://www.uspto.gov/web/offices/pac/checkera



OIPE

RAW SEQUENCE LISTING DATE: 04/23/2001 PATENT APPLICATION: US/09/827,937 TIME: 13:34:35

Input Set : A:\seqlist-1488 1220003.txt
Output Set: N:\CRF3\04232001\I827937.raw

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                                                                              Corrected Diskette Needed
              Ruben, Steven M.
     13 <120> TITLE OF INVENTION: Human G-Protein Coupled Receptors
     19 <130> FILE REFERENCE: 1488.1220003
C--> 25 <140> CURRENT APPLICATION NUMBER: US/09/827,937
C--> 28 <141> CURRENT FILING DATE: 2001-04-09
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    40 <160> NUMBER OF SEQ ID NOS: 18
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                                                                                 Unknown and
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100 attcaaaccc tccagaatca acagttatca ggtaaccaac aagaa atg caa gcc gtc 237 Grfificial Sequences

Met Gln Ala Val
    94 ttaaaaggaa aataccagat gccactctgc aggctgcaat aactactact tactggatac 180
    106
                                                                           285 must include (220),
    112 yac aat etc ace tet geg eet ggg aac ace agt etg tge ace aga gae
    115 Asp Asn Leu Thr Ser Ala Pro Gly Asn Thr Ser Leu Cys Thr Arg Asp
                                                                                2223> features to
                             10.
                                                 15
                                                                     20
    124 tac aaa atc acc cag gtc ctc ttc cca ctg ctc tac act gtc ctg ttt
                                                                               explain the source
    127 Tyr Lys Ile Thr Gln Val Leu Phe Pro Leu Leu Tyr Thr Val Leu Phe
                                                                           381 of the genetic
    136 ttt gtt gga ctt atc aca aat ggc ctg gcg atg agg att ttc ttt caa
    139 Phe Val Gly Leu Ile Thr Asn Gly Leu Ala Met Arg Ile Phe Phe Gln
                                                                                material in the
    148 atc cgg agt aaa tca aac ttt att att ttt ctt aag aac aca gtc att
    151 Ile Arg Ser Lys Ser Asn Phe Ile Ile Phe Leu Lys Asn Thr Val Ile
                                                                                Sejvence.
                                     60
    160 tet gat ett ete atg att etg act ttt eca tte aaa att ett agt gat
   153 Ser Asp Leu Leu Met Ile Leu Thr Phe Pro Phe Lys Ile Leu Ser Asp
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                                                                          525 * Note please
   172 yec aaa etg gga aca gga eea etg aga act ttt gtg tgt eaa gtt ace
   175 Ala Lys Leu Gly Thr Gly Pro Leu Arg Thr Phe Val Cys Gln Val Thr
                             90
                                                                          573 Correct subsequent
                                                 95
   184 tcc gtc ata ttt tat ttc aca atg tat atc agt att tca ttc ctg gga
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listing which contain
                       105
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   196 ctg ata act atc gat cgc tac cag aag acc acc agg cca ttt aaa aca
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	232	Arg	Cla	Dro	λra	Acn	T.ve	Acn	Val	Lvs	Lvs	Cvs	Ser	Phe	Leu	Lys	Ser	-
			GIII	PIU	AI 9	rob	170	11012			-,, -	175				•	180	
	238	165 gag			-+-	a+ a		a = t	722	ata	αta		tac	atc	t.at.	caa	atc	813
	244	Glu	LLC	990	CLa	y.c.	mww	uic	Clu	Tlo	Val	Acn	Tur	Tle	Cvs	Gln	Val	
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		Pne	TYL	Val	280	GIU	361	1 111	ЦСИ	285					290		•	
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	328	Leu	gat	eeg	רונט	TIO	m	Dho	Dho	Lou	Cve	Luc	Ser	Dhe	Ara	Asn	Ser	
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	403	+++	attt	,~, †††	cata	atca	ac t	aagg	aaqa	a cq	atca	attq	gat	ataa	tct	tctt	accaaa	1661
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493	1 Cys	m 1	3 2 2	Nan	mur	T.v.c	Tle	Thr	Gln		Leu	Phe	Pro	Leu	Leu	Tyr		
	Cys	Thr	Ary	20	ı y -	шуз			25					30				
502 508	Thr	Val	Leu	Phe	Phe	Val	Gly	Leu	Ile	Thr	Asn	Gly	Leu	Ala	Met	Arg		
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538	Суз		1	m 1	85	37 - 1	T10	Dho	ጥህጉ		Thr	Met.	Tvr	Ile		Ile		
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634 637		Pro	Tyr	260		261	GIII	T 11T	265	р			- 2	270				
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	670	Ser	Leu	Ser	Glr	Asp	Asn	Arg	Lys	Lys	Glu	Glr	Asp	Gly	/ Gly	Asp	Pro	
	673					325					330)				335	i	
			Glu	Glu			Met											
	682				340													
				EQ I														
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907			230		:		-+-		200	~+~	a+ a	~+ <i>~</i>		a+ a	ata	ggg	826
913	cgc	aag	gcc	cgc	cgc	CLG	CLG	aay	mb	9.29	tou	Mot	TIO	Lou	Lou	900 81a	020
916	Arg		Ala	Arg	Arg	Leu		гаг	THE	Val	Leu		116	Leu	Leu	ALG	
919		245					250					255	a+ a	~~~	~~~	at a	874
925	ttc	ttg	gtg	tgc	tgg	gga	cca	ctc	בנכ	999	ctg	ctg	CLG	310	yac	y.c	0/4
		Leu	vaı	Cys	'l'rp		Pro	.ieu	Pne	GIY		Leu	Leu	Ald	ASP	275	
931						265					270						022
937	ttt	ggc	tcc	aac	CTC	tgg	gcc	cag	gag	tac	ctg	cgg	ggc	atg	gac	rgg m	922
	Phe	Gly	Ser	Asn		Trp	Ala	GIN	GIU		Leu	Arg	GIY	met.		тгр	
943					280					285	. 4			_ 4	290		970
		ctg															970
	He	Leu	Ala		Ala	vaı	Leu	Asn		Ala	vaı	Asn	Pro		11e	TYL	
955				295					300			_+_		305			1010
961	tcc	ttc	cgc	agc	agg	gag	grg	tgc	aga	gcc	gtg	CTC	agc	TTC	Ctc	Ege	1018
	Ser	Phe		Ser	Arg	GLu	vaj		Arg	Ala	vaı	Leu		Рпе	Leu	Cys	
967			310					315					320				1000
973	tgc	ggg	tgt	ctc	cgg	ctg	ggc	atg	cga	999	CCC	999	gac	tge	ctg	31-	106€
	Cys	Gly	Cys	Leu	Arg	Leu		met	Arg	GIÀ	Pro		Asp	Cys	ьеи	Ald	
979		325					330					335					1114
985	cgg	gcc	gtc	gag	gct	cac	tcc	gga	gct	tcc	acc	acc	gac	agc	tct	ctg	1114
	_	Ala	Val	Glu	Ala		Ser	GŢĀ	Ala	Ser		Thr	Asp	ser	Ser		
991						345					350					355	1160
997	agg	cca	agg	gac	agc	ttt	cgc	ggc	tcc	cgc	tcg	ctc	agc	ttt	cgg	atg	1162
		g Pro	Arg	a Asp			e Arg	3 G12	, Sei			. Lei	ı Sei	r Phe		Met	
1003					360					369				1.	370		1011
		ggag													aagti	igca	1211
		g Glu	ı Pro			r Sei	: Ile	e Sei			L Arg	g Sei	r Ile	€			
1015				375					380								
																gggtaca	
																gecece	
																gcctai	
																caccct	
																gtcccg	
1051	ccc	cctct	ctg	ggc	ctcag	gta q	gggct	ccca	ag go	ctgca	aaggg	ggt	ggact	tgtg	ggat	gcatgo	1571

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/827,937

DATE: 04/23/2001 TIME: 13:34:36

Input Set : A:\seqlist-1488 1220003.txt
Output Set: N:\CRF3\04232001\I827937.raw

L:25 M:270 C: Current Application Number differs, Replaced Application Number L:28 M:271 C: Current Filing Date differs, Replaced Current Filing Date